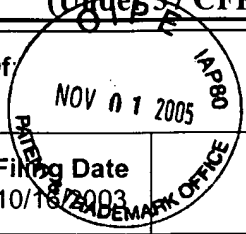


11-02-05

FFW

<b>TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT</b> (Under 37 CFR 197(b) or 1.97(c))					<b>Docket No.</b> <b>15436.51.1</b>	
In Re Application Of: <span style="margin-left: 100px;">Aronson, et al.</span>						
<b>Application No.</b> 10/687,107	<b>Filing Date</b> 10/19/2003	<b>Examiner</b> unknown	<b>Customer No</b> 022913	<b>Group Art Unit</b> 2816	<b>Confirmation No.</b> 7228	
<b>Title:</b> FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS CONNECTIONS TO OPTICAL SUBASSEMBLIES						



Address to:  
**Commissioner for Patents**  
**P.O. Box 1450**  
**Alexandria, VA 22313-1450**

**37 CFR 1.97(b)**

1. ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing of a national application other than a continued prosecution application under 37 CFR 1.53(d); within three months of the date of entry of the national stage as set forth in 37 CFR 1.491 in an international application; before the mailing of a first Office Action on the merits, or before the mailing of a first Office Action after the filing of a request for continued examination under 37 CFR 1.114.

**37 CFR 1.97(c)**

2. ☐ The Information Disclosure Statement submitted herewith is being filed after the period specified in 37 CFR 1.97(b), provided that the Information Disclosure Statement is filed before the mailing date of a Final Action under 37 CFR 1.113, a Notice of Allowance under 37 CFR 1.311, or an Action that otherwise closes prosecution in the application, and is accompanied by one of:
- ☐ the statement specified in 37 CFR 1.97(e);
- OR**
- ☐ the fee set forth in 37 CFR 1.17(p).

**TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT**  
(Under 37 CFR 197(b) or 1.97(c))

**Docket No.**  
**15436.51.1**

**In Re Application Of:**

Aronson, et al.

Application No.	Filing Date	Examiner	Customer No	Group Art Unit	Confirmation No.
10/687,107	10/16/2003	unknown	022913	2816	7228

**Title:**  
FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS CONNECTIONS TO OPTICAL SUBASSEMBLIES

**Payment of Fee**

(Only complete if Applicant elects to pay the fee set forth in 37 CFR 1.17(p))

- ☐ A check in the amount of \$ \_\_\_\_\_ is attached.
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Kari W. Stange  
Signature

Dated: 10/31/05

cc:

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Applicant(s): Aronson, et al.

Docket No.  
15436.51.1Application No.  
10/687,107Filing Date  
10/16/2003Examiner  
unknownCustomer No  
022913Group Art Unit  
2816

Invention:

FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS CONNECTIONS TO OPTICAL SUBASSEMBLIES

I hereby certify that the following correspondence:

Information Disclosure Statement (2 pages)

Information Disclosure Statement Transmittal (2 pages)

Information Disclosure Statement Citation (7 pages and 18 references attached)

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PATENT APPLICATION  
Docket No: 15436.51.1

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of		)	
	Aronson, et al.	)	
Serial No.:	10/687,107	)	Art Unit
Confirmation No.:	7228	)	2816
Filed:	October 16, 2003	)	
For:	FLEXIBLE CIRCUIT DESIGN FOR IMPROVED	)	
	LASER BIAS CONNECTIONS TO OPTICAL	)	
	SUBASSEMBLIES	)	

INFORMATION DISCLOSURE STATEMENT  
UNDER 37 C.F.R. § 1.97

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Please find, pursuant to 37 C.F.R. § 1.98(a)(1), the enclosed Form PTO-1449 which contains a list of all patents, publications, or other items that have come to the attention of one or more of the individuals designated in 37 C.F.R. § 1.56(c). While no representation is made that any of these references may be "prior art" within the meaning of that term under 35 U.S.C. §§ 102 or 103, the enclosed list of references is disclosed so as to fully comply with the duty of disclosure set forth in 37 C.F.R. § 1.56.

Moreover, while no representation is made that a specific search of office files or patent office records has been conducted or that no better art exists, the undersigned attorney of record

believes that the enclosed art is the closest to the claimed invention (taken in its entirety) of which the undersigned is presently aware, and no art which is closer to the claimed invention (taken in its entirety) has been knowingly withheld.

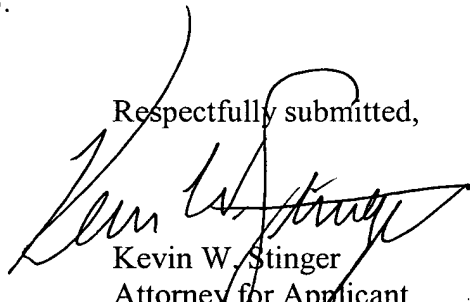
The accompanying Form PTO-1449 notifies the Examiner of the specified related pending U.S. patent applications listed therein. This notice is not an admission that the claims of the present application and the claims of the specified related pending patent applications are substantially similar or that the specified related applications represent prior art with respect to the present application.

In accordance with 37 C.F.R. §§ 1.97 and 1.98, a copy of the listed non-U.S. patent references or relevant portion thereof is also enclosed.

This Information Disclosure Statement is being filed before a first Office Action on the merits has been received, therefore, no fee is believed to be due. Please credit any over payment or charge any additional fees to Deposit Account No. 23-3178 of the undersigned.

DATED October 31, 2005.

Respectfully submitted,



Kevin W. Stinger  
Attorney for Applicant  
Registration No. 48,959  
Customer No. 022913

KWS: gj  
gh0000000541V001

Applicant: Argenson, et al.

Serial No.: 10/687,107

Att'y Docket No.: 15436.51.1

Filing Date: October 16, 2003

Group: 2816

For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
CONNECTIONS TO OPTICAL SUBASSEMBLIESINFORMATION DISCLOSURE CITATIONS MADE BY APPLICANTRelated U.S. Patent Applications

	<u>Inventor</u>	<u>Application Number</u>	<u>Filing Date</u>
_____ 1	Kumar, et al.	10/409,837	04/09/2003
_____ 2	Kumar, et al.	10/835,832	04/30/2004
_____ 3	Ellison	10/836,728	04/30/2004
_____ 4	Liu, et al.	11/094,990	03/31/2005
_____ 5	Ice, Donald A.	11/179,223	07/11/2005
_____ 6	Nippa, et al.	10/836,129	04/30/2004

U.S. Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Issue/Pub Date</u>	<u>Name</u>
_____ 7	3,271,214	09/06/1966	Tabor
_____ 8	3,987,676	10/26/1976	Bennewitz
_____ 9	4,092,061	05/30/1978	Stigliani, Jr.
_____ 10	4,128,697	12/05/1978	Simpson
_____ 11	4,375,578	03/01/1983	Mitchell, et al.
_____ 12	4,769,684	09/06/1988	Crocker, et al.
_____ 13	4,818,099	04/04/1989	Preikschat, et al.

Examiner:

Date Considered:

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant: Aronson, et al.

Serial No.: 10/687,107

Att'y Docket No.: 15436.51.1

Filing Date: October 16, 2003

Group: 2816

For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
CONNECTIONS TO OPTICAL SUBASSEMBLIES

_____ 14	4,952,016	08/28/1990	Adams, et al.
_____ 15	4,962,991	10/16/1990	Carvalho
_____ 16	5,125,054	06/23/1992	Ackley, et al.
_____ 17	5,136,682	08/04/1992	Moyer, et al.
_____ 18	5,212,345	05/18/1993	Gutierrez
_____ 19	5,249,245	09/28/1993	Lebby, et al.
_____ 20	5,253,311	10/12/1993	Killen, et al.
_____ 21	5,299,276	03/29/1994	Okamura, et al.
_____ 22	5,359,686	10/25/1994	Galloway, et al.
_____ 23	5,361,317	11/01/1994	Hartman, et al.
_____ 24	5,371,820	12/06/1994	Welbourn, et al.
_____ 25	5,371,822	12/06/1994	Horwitz, et al.
_____ 26	5,375,184	12/20/1994	Sullivan
_____ 27	5,389,686	02/14/1995	Diop, et al.
_____ 28	5,414,786	05/19/1995	Ohta, et al.
_____ 29	5,420,954	05/30/1995	Swirhun, et al.
_____ 30	5,432,630	07/11/1995	Lebby, et al.
_____ 31	5,471,552	11/28/1995	Wuu, et al.
_____ 32	5,495,125	02/27/1996	Uemura

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Date Considered:

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Applicant: Aronson, et al.

Serial No.: 10/687,107

Att'y Docket No.: 15436.51.1

Filing Date: October 16, 2003

Group: 2816

For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
CONNECTIONS TO OPTICAL SUBASSEMBLIES

_____ 33	5,499,312	03/12/1996	Hahn, et al.
_____ 34	5,539,848	07/23/1996	Galloway
_____ 35	5,545,846	08/13/1996	Williams, et al.
_____ 36	5,596,662	01/21/1997	Boscher
_____ 37	5,613,024	03/18/1997	Shahid
_____ 38	5,625,734	04/29/1997	Thomas, et al.
_____ 39	5,638,469	06/10/1997	Feldman, et al.
_____ 40	5,666,449	09/09/1997	Sawae, et al.
_____ 41	5,703,895	12/30/1997	Ghirardi, et al.
_____ 42	5,706,378	01/06/1998	Suzuki, et al.
_____ 43	5,717,800	02/10/1998	Funabashi
_____ 44	5,774,614	06/30/1998	Gilliland, et al.
_____ 45	5,894,409	04/13/1999	Tanaka
_____ 46	5,974,214	10/26/1999	Shacklette, et al.
_____ 47	6,011,695	01/04/2000	Dumke
_____ 48	6,040,624	03/21/2000	Chambers, et al.
_____ 49	6,045,269	04/04/2000	Watanabe, et al.
_____ 50	6,069,991	05/30/2000	Hibbs-Brenner, et al.
_____ 51	6,088,498	07/11/2000	Hibbs-Brenner, et al.

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Date Considered:

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Applicant: Aronson, et al.  
 Serial No.: 10/687,107  
 Filing Date: October 16, 2003  
 For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
 CONNECTIONS TO OPTICAL SUBASSEMBLIES

Att'y Docket No.: 15436.51.1  
 Group: 2816

_____ 52	6,091,475	07/18/2000	Ogino, et al.
_____ 53	6,118,666	09/12/2000	Aoki, et al.
_____ 54	6,195,261	02/27/2001	Babutzka, et al.
_____ 55	6,268,231	07/31/2001	Wetzel
_____ 56	6,326,553	12/04/2001	Yim, et al.
_____ 57	6,380,493	04/30/2002	Morita, et al.
_____ 58	6,404,960	06/11/2002	Hibbs-Brenner, et al.
_____ 59	6,473,314	10/29/2002	Custer, et al.
_____ 60	6,485,322	11/26/2002	Branch, et al.
_____ 61	6,521,989	02/18/2003	Zhou
_____ 62	6,586,678	07/01/2003	Rosenberg, et al.
_____ 63	6,617,518	09/09/2003	Ames, et al.
_____ 64	6,703,561	03/09/2004	Rosenberg, et al.
_____ 65	6,709,607	03/23/2004	Hibbs-Brenner, et al.
_____ 66	2002/0170742	11/21/2002	Liaw, et al.
_____ 67	2003/0102157	06/05/2003	Rosenberg, et al.
_____ 68	2003/0197254	10/23/2003	Huang
_____ 69	2004/0090620	05/13/2004	Farr
_____ 70	2004/0018409	01/29/2004	Hui, et al.

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Date Considered:

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Applicant: Aronson, et al.  
 Serial No.: 10/687,107 Att'y Docket No.: 15436.51.1  
 Filing Date: October 16, 2003 Group: 2816  
 For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
 CONNECTIONS TO OPTICAL SUBASSEMBLIES

_____ 71	2004/0062491	04/01/2004	Sato, et al.
_____ 72	2004/0092135	05/13/2004	Hofmesiter, et al.

Foreign Patent Documents

<u>Examiner Initial*</u>	<u>Document Number</u>	<u>Publication Date</u>	<u>Country or Patent Office</u>
_____ 73	0 905 838	03/31/1999	Great Britain
_____ 74	0 881 671	12/02/1998	Great Britain
_____ 75	09-223848	08/26/1997	Japan
_____ 76	92/00538	01/09/1992	PCT
_____ 77	62-114545	05/26/1987	Japan
_____ 78	JP407159636	06/23/1995	Japan
_____ 79	JP406034838	02/10/1994	Japan

Other Documents

(including author, title, pertinent pages, etc.)

Examiner  
Initial\*

_____ 80	Murata, S., Nishimura, K., <i>Improvement in Thermal Properties of a Multi-Beam Laser Diode Array</i> , Japanese Journal of Applied Physics, Vol. 28, Suppl. 28-3, pp.165-170 (1989).
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Date Considered:

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Applicant: Aronson, et al.

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Filing Date: October 16, 2003

Group: 2816

For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
CONNECTIONS TO OPTICAL SUBASSEMBLIES

- 
- \_\_\_\_ 81 ALI, "New Materials and Design Components for Integrated Optics," Technology Report/Fiberoptics, LASER FOCUS WORLD, Vol. 21, No. 8, August 1985, Tulsa, U.S., pp 48-50
- \_\_\_\_ 82 COHEN, "Passive Laser-Fiber Alignment by Index Method," IEEE Photonics Technology Letters, Vol. 3, No. 11, December 1991, pp 985-987, New York, U.S.
- \_\_\_\_ 83 COLDREN, et al., "Flip-Chip Bonded, Back-Emitting, Microlensed Arrays of Monolithic Vertical Cavity Lasers and Resonant Photodetectors," Electronic Components and Technology Conference, Sept. 1999, pp. 733-740
- \_\_\_\_ 84 HAVANT, "Flexible Interposing Carrier Scheme for Optical Waveguides," Research Disclosure No. 303, July 1989, page 512
- \_\_\_\_ 85 HIBBS-BRENNER, et al., "Packaging of VCSEL Arrays for Cost-Effective Interconnects at <10 Meters," Electronic Components and Technology Conference, Sept. 1999, pp. 747-752
- \_\_\_\_ 86 HSU, et al., "Flip-chip Approach to Endfire Coupling Between Single-Mode Optical Fibres and Channel Waveguides," Patent Associates Literature, Electronic Letters, Vol. 12, No. 16, pp. 404-405, 08/05/1976
- \_\_\_\_ 87 KAZLAS, et al., "Monolithic Vertical-Cavity Laser/p-i-n Photodiode Transceiver Array for Optical Interconnects," IEEE Photonics Technology Letters, Nov. 1998, pp. 1530-1532, Vol. 10, No. 11.
- \_\_\_\_ 88 LOUDERBACK, et al., "Flip Chip Bonded Arrays of Monolithically Integrated, Microlensed Vertical-Cavity Lasers and Resonant Photodetectors," IEEE Photonics Technology Letters, March 1999, pp. 304-306, Vol. II, No. 3.
- \_\_\_\_ 89 PLAWSKY, et al., "Photochemically Machined, Glass Ceramic, Optical Fiber Interconnection Components," Article, Optoelectronic Materials, Devices, Packaging and Interconnects (1998), SPIE, Vol. 994, pp. 101-106
- \_\_\_\_ 90 SULLIVAN, et al., "Polymeric Waveguides," 1992 IEEE, pp. 27-31

Examiner:

Date Considered:

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\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609, draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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Applicant: Aronson, et al.  
Serial No.: 10/687,107 Att'y Docket No.: 15436.51.1  
Filing Date: October 16, 2003 Group: 2816  
For: FLEXIBLE CIRCUIT DESIGN FOR IMPROVED LASER BIAS  
CONNECTIONS TO OPTICAL SUBASSEMBLIES

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### **References Cited by Applicants**

While the filing of Information Disclosure Statements is voluntary, the procedure is governed by the guidelines of Section 609 of the Manual of Patent Examining Procedure and 37 C.F.R. §§ 1.97 and 1.98. To be considered a proper Information Disclosure Statement, Form PTO-1449 shall be accompanied by a copy of each listed patent or publication or other item of information and a translation of the pertinent portions of foreign documents (if an existing translation is readily available to the applicant), an explanation of relevance of each reference not in the English language, and should be submitted in a timely manner as set out in MPEP Sec. 609.

Examiners will consider all citations submitted in conformance with 37 C.F.R. § 1.98 and MPEP Sec. 609 and place their initials adjacent the citations in the spaces provided on this form. Examiners will also initial citations not in conformance with the guidelines which may have been considered. A reference may be considered by the Examiner for any reason whether or not the citation is in full conformance with the guidelines. A line will be drawn through a citation if it is not in conformance with the guidelines AND has not been considered. A copy of the submitted form, as reviewed by the Examiner, will be returned to the applicant with the next communication. The original of the form will be entered into the application file.

Each citation initialed by the Examiner will be printed on the issued patent in the same manner as references cited by the Examiner on Form PTO-892.

The reference designations "A1," "A2," etc. (referring to Applicant's reference 1, Applicant's reference 2, etc.) will be used by the Examiner in the same manner as Examiner's reference designations "A," "B," "C," etc. on Office Action Form PTO-1142.

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Examiner:

Date Considered:

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